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Bruker d8 advance installation manual

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Open the shutter and wait 15 minutes for the mirror to warm up. Example load Note: The maximum settings for kV and mA are: 40 kV and 30 mA. The lowest angle you can start with is 1 degree 2-theta. Maximum number of counts within 500,000 counts. The x-ray/shutter window will not open if the door is not closed properly. The analysis will begin only after the door has been properly closed. Emergency stop buttons are located on both sides of the device. They will disable XRD in the event of an emergency. Be careful not to touch these while the analysis is ongoing. Do not use solvents or other chemicals that could damage the surface of the Stage. Only scans connected to the closure should be carried out. No detector scan! Basic controls Table Adjustment Mounting Knife Edge Adjustment Close shutter in XRD Commander. Open 2 diffractometer doors. Turn on the inner light. Green switch below the emergency button on the left side of the device. Place the sample in the center of the scene. Use holes as a guide (the same number of holes around the swatch). Turn on the vacuum to keep the sample in place. Lower knife edge up to 0.000 mm (micrometer of knife edge counterclockwise). Lift the sample to the edge of the knife (step the micrometer clockwise). Use the burner to watch the gap between the edge of the knife and the sample disappear. Make sure the knife edge remains at 0.000mm. If the number changes, the edge of the knife hits the sample. Lift the edge of the knife to 1,200 mm (micrometer clockwise). * Close the door. Make sure that the ends of both handles match the holes (clicking the sound). If the door is not properly closed X-ray shutter or window will not open as a precaution. The analysis will not start unless the door is closed properly. Create a .dql file for Z analysis conditions click on XRDWizard. Click the file. Click New, and then select XRD. Click OK. Set the range to 2 θ - Start and stop angles. Set the step size (increment) and time per step. The scan time is displayed next to the generator voltage & current. Set kV to 40 and mA to 30. File, Save As- go to the directory in Year\Your folder\ to save . Dql. Create a W XRD Commander (Desktop / XRD Commander) .job file click on Work. Click the Create Task icon. Set the following values: Position- 1. Sample ID - Description of the sample. There are no restrictions on the number of characters. Parameter file - Click on 3 dots to go to E:\Data\ Current Year\Your Folder\ (Location . DQL created in XRDWizard). Click the file. Open. Raw file- Click on 3 dots to go to E:\Data\ Current Year\ Your Folder\ . Create a file name for the . raw file. Open. Click Start. To save the task file, click Export. Go to E:\Data\ Current Year\ Your Folder\ . Create a file name for the . job. Save. To open the saved task file, click Import to go to E:\Data\ Current Year\ Your Folder\ (location . JOB file created in the Create tasks box). Click the file. Open. Removing open door samples. Turn off the vacuum. Remove the sample from the Stage. Clean the handle, then return to the box. Close the door correctly. Close - End session Close all programs. Turn off the monitor. XRD ► Manual, Detector, Beam, Optics, Tube, Slit, Primary, Generator, Measurement, Goniometer, Xraysrv.wustl.edu D8 ADVANCE D8 DISCOVER Dynamic Beam Optimization (DBO) process files provide best-in-class powder diffraction data, setting new standards in terms of counting statistics and peak-to-background ratio, all without the need for manual instrument reconfiguration. Dynamic Beam Optimization sets a new benchmark in terms of powder diffraction data QualitySeye XE-T's six-seat energy dispersion detector uniquely combines rapid data collection with an unprecedented K β fluorescence and radiation filter. Its own variable active detector window and motorized anti-radiation screen (MASS) allow you to collect data from the lowest 2 θ angles without parasitic low-angle background scattering, in particular air scattering. Fully automated MASS reversing avoids trimming the beam, even in combination with continuous slots that provide excellent counting statistics over the entire angular range. Excellent counting statistics allows for faster data collection and increased sample throughput No parasitic low-angle background scattering greatly improves the quality of data of pharmacy, clay, zeolite and other samples having a large unit cell Best peak to background increases sensitivity to fine phases Full quantification of crystalline and amorphous phases using DIFFRAC. TOPASMotorized Anti-Scatter Screen Knife edge position is automatically optimized to achieve maximum attenuation of parasitic dispersion without trimming the beam at any angle 2 θ . Superior data quality with DBONIST SRM 8486 (Plain Portland clinker) without (blue scan) and with motorized anti-ized screen (red scan). All other conditions remained identical. TRIO optics™ a key component of the D8 ADVANCE Plus, meeting the specific instrument resolution requirements of the three most commonly used X-ray diffraction geometries in one optics: Divergent beam for Powder diffusion (XRPD) High intensity parallel beam for capillary experiments, height-sensitive measurements, surface-sensitive grazing precipitation geometry (GID), coating thickness determination (XRR) and microdiffraction (μ XRD) Pure Cu-K α parallel beam for high-resolution diffraction (HRXRD) of thin epitaxial films and powder samples with low symmetry D8 ADVANCE Plus with TRIOZ optics of complete user convenience. Trio optics are characterized by motorized switching between three basic beam geometries and a fully software-controlled instrument axis without manual user intervention thanks to the unparallelled SmartCalib™ intelligence. Grazing frequency geometry Frequency geometry for optimal polycrystal thin diffraction filmXRR to determine layer thickness from 0.1 nm to 250 nm GeometryBragg-Brentano for unparallelled diffraction powder2-bounce channel-cut monochromator offers excellent resolution at high intensity on epitaxial samplesDvinci design is a landmark D8 ADVANCE as an exceptionally modular system. From x-ray tubes to optics and sampling steps to detectors, every user – even a novice – is able to change geometry from one beam to another or replace individual components without any problems. That's why our D8 ADVANCE offers unparalleled adaptability for every possible x-ray diffraction application. SNAP-LOCK optics changePush-button change of TWIN and TRIO optics with software-controlled SmartCalib SNAP-LOCK switch to dedicated optics or different wavelengths Real-time component recognition and status display Intelligent sample assembly and positioning solutions facilitate daily operation Button change of twin and triodance will align lifetime verification by verifying the performance of the instrument with the latest NIST corundum SRM 1976 The robust and maintenance-free design of the goniometer ensures the performance of the instrument throughout its IQ/OQ procedure for regulated industries such as the pharmaceutical detector warranty, all detection elements fully operating

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